

**Amendments to the Specification:**

Please replace the paragraph, beginning at page 11, line 6, with the following rewritten paragraph:

Therefore, when aberrations exist, by making the light source output higher than ~~an output  $P_0$  under the ideal condition~~ ~~an output  $P_0$  under the ideal condition where there is no aberration in the optical system ( $S=0$ )~~ at a ratio  $I_0/I$  which is the reciprocal of  $I/I_0$ , the energy contributing to recording can be maintained equal to that when there is no aberration. That is, this is achieved by setting the light source output to  $P$  calculated by the following expression 1:

Please add the following new paragraph after the paragraph ending on line 18 of page 16.

where  $P_0$  is the light source output under the ideal condition where  $S_1=S_2=0$ .

Please replace the paragraph, beginning at page 23, line 23, with the following rewritten paragraph:

is obtained. Although the expression 16 is nothing but the expression 17\_7 when  $S_i=0$ , control can more accurately be performed by storing  $S_i$  and  $P_i$  obtained by initial learning as described above and calculating the light source output to be set while the apparatus is operating.